

Python: module xmgrace.xmgrace

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class **BOX_ELLIPSE**([__builtin__.object](#))

Methods defined here:

[__init__\(self, parent, x1, y1, x2, y2, color, lwidth, lstyl, fillcolor, fillpattern, graph=0\)](#)

[list\(self\)](#)

Properties defined here:

color

get">[get = _getcolor\(self\)](#)
set">[set = _setcolor\(self, value\)](#)

coord

get">[get = _getcoord\(self\)](#)
set">[set = _setcoord\(self, value\)](#)

linestyle

get">[get = _getlinestyle\(self\)](#)
set">[set = _setlinestyle\(self, value\)](#)

linewidth

```
get">get = _getlinewidth(self)
set">set = _setlinewidth(self, value)
```

loctype

```
get">get = _getloctype(self)
set">set = _setloctype(self, value)
```

status

```
get">get = _getstatus(self)
set">set = _setstatus(self, value)
```

x1

```
get">get = _getx1(self)
set">set = _setx1(self, value)
```

x2

```
get">get = _getx2(self)
set">set = _setx2(self, value)
```

y1

```
get">get = _gety1(self)
set">set = _sety1(self, value)
```

y2

```
get">get = _gety2(self)
set">set = _sety2(self, value)
```

Data and other attributes defined here:

`__slots__ = ['status', 'loctype', 'color', 'linewidth', 'linestyle', 'x1', 'x2', 'y1', 'y2', 'coord', 'fill', 'parent', '_status', '_loctype', '_color', '_linewidth', '_linestyle', '_x1', '_x2', ...]`

`fill = <member 'fill' of 'BOX_ELLIPSE' objects>`

`graph = <member 'graph' of 'BOX_ELLIPSE' objects>`

`parent = <member 'parent' of 'BOX_ELLIPSE' objects>`

class *COLOR*(builtin.object)

Methods defined here:

`__init__(self, name='Black', rgb=None, id=16)`

`change(self, nm)`

`list(self)`
list the attributes

Properties defined here:

id

```
get">get = _getid(self)
set">set = _setid(self, value)
```

name

```
get">get = _getname(self)
set">set = _setname(self, value)
```

rgb

```
get">get = _getrgb(self)
set">set = _setrgb(self, value)
```

Data and other attributes defined here:

```
__slots__ = ['name', 'rgb', 'id', '_name', '_rgb', '_id']
```

class **DSET**(builtin .object)

Methods defined here:

```
__init__(self, parent, color, graph)
```

```
list(self)
# end of __init__
```

Properties defined here:

comment

```
get">get = _getcomment(self)
set">set = _setcomment(self, value)
```

dropline

```
get">get = _getdropline(self)
set">set = _setdropline(self, value)
```

graph

```
get">get = _getgraph(self)
set">set = _setgraph(self, value)
```

hidden

```
get">get = _gethidden(self)
set">set = _sethidden(self, value)
```

legend

```
get">get = _getlegend(self)
set">set = _setlegend(self, value)
```

type

```
get">get = _gettype(self)
set">set = _settype(self, value)
```

Data and other attributes defined here:

`__slots__ = ['graph', 'hidden', 'type', 'dropline', 'comment', 'legend', 'symbol', 'line', 'baseline', 'fill', 'a
'errorbar', 'id', 'parent', '_graph', '_hidden', '_type', '_dropline', '_comment', '_legend']`

`avalue` = <member 'avalue' of 'DSET' objects>

`baseline` = <member 'baseline' of 'DSET' objects>

`errorbar` = <member 'errorbar' of 'DSET' objects>

`fill` = <member 'fill' of 'DSET' objects>

`id` = <member 'id' of 'DSET' objects>

`line` = <member 'line' of 'DSET' objects>

`parent` = <member 'parent' of 'DSET' objects>

`symbol` = <member 'symbol' of 'DSET' objects>

class **FILL**(builtin .object)

Methods defined here:

`__init__(self, parent, fillcolor, fillpattern)`

`list(self)`

Properties defined here:

`color`

`get">get = _getcolor(self)
set">set = _setcolor(self, value)`

`pattern`

`get">get = _getpattern(self)
set">set = _setpattern(self, value)`

Data and other attributes defined here:

`__slots__ = ['_color', '_pattern', 'parent', 'color', 'pattern']`

`parent` = <member 'parent' of 'FILL' objects>

class **FONT**(builtin .object)

Methods defined here:

`__init__(self, name)`

Properties defined here:

name

```
get">get = _getline(self)
set">set = _setline(self, value)
```

Data and other attributes defined here:

dict = <dictproxy object>

dictionary for instance variables (if defined)

slots = ['name', '_name']

weakref = <attribute '*__weakref__*' of 'FONT' objects>

list of weak references to the *object* (if defined)

class ***GRAPH***(*builtin*.*object*)

Methods defined here:

init(self, parent, ymin=0.0, ymax=1.0, xmin=0.0, xmax=1.0)

list(self)

#end of *__init__*

Properties defined here:

bar_hgap

```
get">get = _getbar_hgap(self)
set">set = _setbar_hgap(self, value)
```

hidden

```
get">get = _gethidden(self)
set">set = _sethidden(self, value)
```

nset

```
get">get = _getnset(self)
set">set = _setnset(self, value)
```

stack_world

```
get">get = _getstack_world(self)
set">set = _setstack_world(self, value)
```

stacked

```
get">get = _getstacked(self)
set">set = _setstacked(self, value)
```

status

```
get">get = _getstatus(self)
set">set = _setstatus(self, value)
```

```

title
    get">get = _gettitle(self)
    set">set = _settitle(self, value)

title
    get">get = _gettext(self)
    set">set = _setttitle(self, value)

type
    get">get = _gettype(self)
    set">set = _settype(self, value)

vxmax
    get">get = _getvxmax(self)
    set">set = _setvxmax(self, value)

vxmin
    get">get = _getvxmin(self)
    set">set = _setvxmin(self, value)

vymax
    get">get = _getvymax(self)
    set">set = _setvymax(self, value)

v ymin
    get">get = _getv y min(self)
    set">set = _setv y min(self, value)

xmax
    get">get = _getxmax(self)
    set">set = _setxmax(self, value)

xmin
    get">get = _getxmin(self)
    set">set = _setxmin(self, value)

y max
    get">get = _getymax(self)
    set">set = _setymax(self, value)

y min
    get">get = _getymin(self)
    set">set = _setymin(self, value)

znorm
    get">get = _getznorm(self)
    set">set = _setznorm(self, value)

```

Data and other attributes defined here:

Set = <member 'Set' of 'GRAPH' objects>

```
slots = ['vxmin', 'vxmax', 'vymin', 'vymax', 'status', 'hidden', 'type', 'stacked', 'stack_world', 'bar', 'znorm', 'title', 'stitle', 'stit', 'tit', 'fixedpoint', 'xaxis', 'yaxis', 'altxaxis', 'altyaxis', ...]  
  
altxaxis = <member 'altxaxis' of 'GRAPH' objects>  
  
altyaxis = <member 'altyaxis' of 'GRAPH' objects>  
  
fixedpoint = <member 'fixedpoint' of 'GRAPH' objects>  
  
frame = <member 'frame' of 'GRAPH' objects>  
  
legend = <member 'legend' of 'GRAPH' objects>  
  
stit = <member 'stit' of 'GRAPH' objects>  
  
tit = <member 'tit' of 'GRAPH' objects>  
  
xaxis = <member 'xaxis' of 'GRAPH' objects>  
  
yaxis = <member 'yaxis' of 'GRAPH' objects>
```

class **LINE**(builtin.object)

Methods defined here:

```
__init_(self, parent, x1, y1, x2, y2, color, lwidth, lstyl, pos, atyp, algth, alyo, graph=0)  
  
list(self)
```

Properties defined here:

color

```
get">get = _getcolor(self)  
set">set = _setcolor(self, value)
```

coord

```
get">get = _getcoord(self)  
set">set = _setcoord(self, value)
```

linestyle

```
get">get = _getlinestyle(self)  
set">set = _setgetlinestyle(self, value)
```

linewidth

```
get">get = _getlinewidth(self)  
set">set = _setlinewidth(self, value)
```

loctype

```
get">get = _getloctype(self)  
set">set = _setloctype(self, value)
```

status

```
get">get = _getstatus(self)
set">set = _setstatus(self, value)
```

x1

```
get">get = _getx1(self)
set">set = _setx1(self, value)
```

x2

```
get">get = _getx2(self)
set">set = _setx2(self, value)
```

y1

```
get">get = _gety1(self)
set">set = _sety1(self, value)
```

y2

```
get">get = _gety2(self)
set">set = _sety2(self, value)
```

Data and other attributes defined here:

__slots__ = ['status', 'loctype', 'color', 'linewidth', 'linestyle', 'x1', 'x2', 'y1', 'y2', 'coord', 'parent', 'arrow', '_status', '_loctype', '_color', '_linewidth', '_linestyle', '_x1', '_x2', ...]

arrow = <member 'arrow' of 'LINE' objects>

graph = <member 'graph' of 'LINE' objects>

parent = <member 'parent' of 'LINE' objects>

class **REGION**(__builtin__.object)

REGION CLASS

Methods defined here:

__init__(self, parent)
Default values

list(self)
list the attributes

Properties defined here:

color

```
get">get = _getcolor(self)
set">set = _setcolor(self, value)
```

line

get">**get** = _getline(self)
set">**set** = _setline(self, value)

linestyle

get">**get** = _getlinestyle(self)
set">**set** = _setlinestyle(self, value)

linewidth

get">**get** = _getlinewidth(self)
set">**set** = _setlinewidth(self, value)

link

get">**get** = _getlink(self)
set">**set** = _setlink(self, value)

status

get">**get** = _getstatus(self)
set">**set** = _setstatus(self, value)

type

get">**get** = _gettype(self)
set">**set** = _settype(self, value)

xy

get">**get** = _getxy(self)
set">**set** = _setxy(self, value)

Data and other attributes defined here:

__slots__ = ['status', 'type', 'linestyle', 'linewidth', 'color', 'xy', 'line', 'link', 'parent', '_status', '_type', '_linewidth', '_color', '_xy', '_line', '_link']

parent = <member 'parent' of 'REGION' objects>

class ***STRING***(__builtin__.object)

Methods defined here:

__init__(self, parent, x, y, text, color, char_size, font, rot, just, graph=0)

list(self)

Properties defined here:

char_size

get">**get** = _getchar_size(self)
set">**set** = _setchar_size(self, value)

color

get">**get** = _getcolor(self)
set">**set** = _setcolor(self, value)

```

font
    get">get = _getfont(self)
    set">set = _setfont(self, value)

just
    get">get = _getjust(self)
    set">set = _setjust(self, value)

loctype
    get">get = _getloctype(self)
    set">set = _setloctype(self, value)

rot
    get">get = _getrot(self)
    set">set = _setrot(self, value)

status
    get">get = _getstatus(self)
    set">set = _setstatus(self, value)

text
    get">get = _gettext(self)
    set">set = _settext(self, value)

x
    get">get = _getx(self)
    set">set = _setx(self, value)

xy
    get">get = _getxy(self)
    set">set = _setxy(self, value)

y
    get">get = _gety(self)
    set">set = _sety(self, value)

```

Data and other attributes defined here:

slots = ['status', 'loctype', 'color', 'font', 'just', 'rot', 'x', 'y', 'xy', 'char_size', 'text', 'parent', 'graph', '_loctype', '_color', '_font', '_just', '_rot', '_x', ...]

graph = <member 'graph' of 'STRING' objects>

parent = <member 'parent' of 'STRING' objects>

class ***init***(builtin.object)

Methods defined here:

call(self, cmd)

```

__del__(self)
    If you want to force xmgrace to stay up
    change close_cmd to 'close'

__init__(self, xmgrace_args='', pipe_file=None, new_pipe=1, clean_on_exit=True, color=1, font=0,
 linewidth=1.0, pattern=1, char_size=1)

__str__(self)

add_box(self, x1, y1, x2, y2, color=-1, lwidth=-1, lstyl=-1, fillcolor=-1, fillpattern=-1)

add_color(self, name, rgb=None, id=None)

add_ellipse(self, x1, y1, x2, y2, color=-1, lwidth=-1, lstyl=-1, fillcolor=-1, fillpattern=-1)

add_font(self, name)

add_graph(self, ymin=0.0, ymax=1.0, xmin=0.0, xmax=1.0)

add_line(self, x1, y1, x2, y2, color=-1, lwidth=-1, lstyl=-1, position=0, atyp=0, algh=2, alyo=[1.0])

add_r(self)

add_set(self, graph=0, color=None)

add_string(self, x, y, text, color=-1, char_size=-1, font=-1, rot=0, just=14)

clean_exit(self)

close(self)

col(self, c)

command(self, cmd)
    Issue a command to grace followed by a newline.

    Unless the constructor was called with bufsize=0, this
    interface is buffered, and command execution may be delayed.
    To flush the buffer, either call flush() or send the
    command via self(cmd).

copy(self, S0, S1, G0=0, G1=0)
    copy sets definitions and possibly set if presents, destination

creategraph(self, ymin=0.0, ymax=1.0, xmin=0.0, xmax=1.0)

eps(self, fnm, color='color', level='level2', bbox='tight', docdata='8bit', dpi=300)

exit(self)
    Cause xmgrace to exit.

    Ask xmgrace to exit (i.e., for the program to shut down). If

```

```
it isn't listening, try to kill the process with a SIGTERM.
```

***flush*(self)**
Flush any pending commands to grace.

***is_open*(self)**
Return 1 iff the pipe is not known to have been closed.

***jpeg*(self, fnm, color='color', optimize='off', quality=75, smoothing=0, baseline='off', progressive='on', dct='islow', dpi=72)**

***landscape*(self)**

***list*(self)**

***list_font*(self)**

***make_parameter*(self)**

***metafile*(self, fnm, dpi=72)**

***mif*(self, fnm, dpi=72)**

***move*(self, S0, S1, G0=0, G1=0)**
move sets definitions and possibly set if presents, destination

***orientation*(self)**

***output*(self, fnm, out='PostScript')**

***pdf*(self, fnm, pdf='1.3', compression=4, dpi=72)**

***plot*(self, dat, xs=None, G=None, S=None)**

***png*(self, fnm, interlaced='off', transparent='on', compression=4, dpi=72)**

***pnm*(self, fnm, format='ppm', rawbit='on', dpi=72)**

***portrait*(self)**

***postscript*(self, fnm, color='color', level='level2', docdata='8bit', xoffset=0, yoffset=0, mediafeed='auto', hwresolution='off', dpi=300)**

***ps*(self, *args, **kw)**

***read_parameter*(self, parameterfile)**

***redraw*(self)**

***svg*(self, fnm, dpi=72)**

***swap*(self, S0, S1, G0=0, G1=0)**

Swap 2 sets definitions and possibly sets if presents

update(self)

whichsets(self, *args)

Properties defined here:

background_color

get">get = _getbackground_color(self)
set">set = _setbackground_color(self, value)

char_size

get">get = _getchar_size(self)
set">set = _setchar_size(self, value)

color

get">get = _getcolor(self)
set">set = _setcolor(self, value)

font

get">get = _getfont(self)
set">set = _setfont(self, value)

linestyle

get">get = _getlinestyle(self)
set">set = _setlinestyle(self, value)

linewidth

get">get = _getlinewidth(self)
set">set = _setlinewidth(self, value)

link_page

get">get = _getlink_page(self)
set">set = _setlink_page(self, value)

pattern

get">get = _getpattern(self)
set">set = _setpattern(self, value)

pyversion

get">get = _getversion(self)

sformat

get">get = _getsformat(self)
set">set = _setsformat(self, value)

stitle

get">get = _getstitle(self)
set">set = _setstitle(self, value)

symbol_size

```
get">get = _getsymbol_size(self)
set">set = _setsymbol_size(self, value)
```

title

```
get">get = _getline(self)
set">set = _setline(self, value)
```

version

```
get">get = _getversion(self)
```

Data and other attributes defined here:

Box = <member 'Box' of 'init' objects>

Color = <member 'Color' of 'init' objects>

Ellipse = <member 'Ellipse' of 'init' objects>

Font = <member 'Font' of 'init' objects>

Graph = <member 'Graph' of 'init' objects>

Line = <member 'Line' of 'init' objects>

R = <member 'R' of 'init' objects>

Set = <member 'Set' of 'init' objects>

String = <member 'String' of 'init' objects>

slots = ['title', 'stitle', 'link_page', 'linewidth', 'linestyle', 'color', 'pattern', 'font', 'char_size', 'sym', 'sformat', 'background_color', 'nset', 'ngraph', 'nline', 'nbox', 'nr', 'nellipse', 'pid', 'ininit', ...]

date = <member 'date' of 'init' objects>

ininit = <member 'ininit' of 'init' objects>

nbox = <member 'nbox' of 'init' objects>

ncolor = <member 'ncolor' of 'init' objects>

nellipse = <member 'nellipse' of 'init' objects>

new_pipe = <member 'new_pipe' of 'init' objects>

nfont = <member 'nfont' of 'init' objects>

ngraph = <member 'ngraph' of 'init' objects>

nline = <member 'nline' of 'init' objects>

nr = <member 'nr' of 'init' objects>

nset = <member 'nset' of 'init' objects>
nstring = <member 'nstring' of 'init' objects>
page = <member 'page' of 'init' objects>
parent = <member 'parent' of 'init' objects>
pid = <member 'pid' of 'init' objects>
pipe = <member 'pipe' of 'init' objects>
pipe_file = <member 'pipe_file' of 'init' objects>
timestamp = <member 'timestamp' of 'init' objects>